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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant's 75990 J | s or agent's file reference HS/isj | | See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |
|---|--|--|---|
| | International application No. International filing of PCT/DK 02/00708 24.10.2002 | | Year) Priority date (day/month/year) 24.10.2002 |
| Internation | nal Patent Classification (IPC) | or both national classification and IPC | |
| E21B29 | | | |
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| Applicant | 2 A=0 at al | | 1 |
| | C ApS et al. | | |
| 1. Thi Aut | s international preliminary of hority and is transmitted to | xamination report has been prepare the applicant according to Article 36. | d by this International Preliminary Examining |
| 2. This | s REPORT consists of a to | al of 4 sheets, including this cover s | 7 |
| | This report is also accom | maniad by ANNEYES in about of | the decodely of the second |
| u | been amended and are t | he basis for this report and/or sheets of the basis for this report and/or sheets tion 607 of the Administrative Instruc | the description, claims and/or drawings which have containing rectifications made before this Authority tions under the PCT). |
| The | se annexes consist of a to | | |
| | | | |
| | | | |
| 3. This | report contains indication | relating to the following items: | i |
| _ | - | _ | ·: · |
| | ☐ Basis of the opinion☐ Priority | 1 | ? |
| 111 | | of oninion with regard to novelty, inv | entive step and industrial applicability |
| IV | ☐ Lack of unity of inv | | eriiive step and industrial applicability |
| V | ☑ Reasoned stateme | nt under Rule 66.2(a)(ii) with regard i | o novelty, inventive step or industrial applicability; |
| M | citations and expla | nations supporting such statement | |
| VI VII | ☐ Certain documents ☐ Certain defects in t | | • |
| VIII | | ne international application | |
| VIII | Certain observation | s on the international application | •• • |
| | | | |
| Date of sub | mission of the demand | Date of co | mpletion of this report |
| 19.12.20 | 03 | 20.09.20 | 004 |
| lame and | mailing address of the interna examining authority: | ional Authorize | 1 Officer |
| | European Patent Office | | James M. j. |
| D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 | | 3656 epmu d Diaz y D | Diaz-Caneja, () |
| | | • | 9 No. +49 89 2399-7534 |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DK 02/00708

| i . | Basis | of | the | report |
|------------|-------|----|-----|--------|
|------------|-------|----|-----|--------|

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

| | D | escription, Pages | : |
|----|-------------|--|--|
| | 1- | 4 | as originally filed |
| | CI | aims, Numbers | |
| | 1- | 14 | as originally filed |
| | Dr | awings, Sheets | ^ |
| | 1/1 | - | as originally filed |
| 2. | | | uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item. |
| | Th | | vailable or furnished to this Authority in the following language: , which is: |
| | | the language of a t | ranslation furnished for the purposes of the international search (under Rule 23.1(b)). |
| | | the language of pul | olication of the international application (under Rule 48.3(b)). |
| | | the language of a to Rule 55.2 and/or 55 | anslation furnished for the purposes of international multiplication |
| 3. | Wit inte | th regard to any nucl ernational preliminary | eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing: |
| | | | ernational application in written form. |
| | | filed together with the | ne international application in computer readable form. |
| | | furnished subseque | ntly to this Authority in written form. |
| | | furnished subseque | ntly to this Authority in computer readable form. |
| | | The statement that | the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished. |
| | | | the information recorded in computer readable form is identical to the contra |
| • | The | amendments have i | esulted in the cancellation of: |
| | | the description, | pages: |
| | | the claims, | Nos.: |
| ı | | the drawings, | sheets: |
| | | | |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DK 02/00708

5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1-14

1. Statement

Novelty (N) Yes: Claims

No: Claims

Inventive step (IS) Yes: Claims 1-14

No: Claims

Industrial applicability (IA) Yes: Claims 1-14

No: Claims

2. Citations and explanations .

see separate sheet

1) A method with the features of the preamble is known from D1: US-A-3 073 388.

The problem may be regarded as how to provide a better control of the cutter.

This problem is solved in the known method with the features described in the characterising part of claim 1. In particular it is not known from the searched prior art documents how to set a timer depending on parameters. D1 discloses a timer which is set with a rod.

The same problem and solution applies for the apparatus claim 10 which include the same features in the characterising part.

Therefore, the skilled person had no incentive to include such feature in the known method in order to solve the problem posed. Consequently, the subject-matter of claims 1 and 10 meets the requirements of Art. 33(2)-(4) PCT.

2) Claims 2-9 and 11-14 are dependent from 1 and 10 respectively and define preferred embodiments. They also meet the requirements of Article 33(2)-(3).



Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)
The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v)
(in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

| | a me onica states of America: |
|---|---|
| I hereby declare that I believe I am the original, first and sole (if only is listed below) inventor of the subject matter which is claimed and it | one inventor is listed below) or joint (if more than one inventor for which a patent is sought. |
| This declaration is directed to the international application of which | |
| This declaration is directed to international application No. PCT/ to Rule 26 ter). | (if furnishing declaration pursuant |
| I hereby declare that my residence, mailing address, and citizenship | are as stated next to my name. |
| I hereby state that I have reviewed and understand the contents of the of said application. I have identified in the request of said application, and I have identified below, under the heading "Prior Applications," Organization, day, month and year of filing, any application for a pater States of America, including any PCT international application designs having a filing date before that of the application on which foreign p | in compliance with PCT Rule 4.10, any claim to foreign priority, by application number, country or Member of the World Trade at or inventor's certificate filed in a country other than the United ating at least one country other than the United States of America |
| Prior Applications: | |
| ••••••••••••••••••••••••••••••••••••••• | |
| I hereby acknowledge the duty to disclose information that is k 37 C.F.R. § 1.56, including for continuation-in-part applications, mate of the prior application and the PCT international filing date of the c | rial information which became available between the filing date |
| I hereby declare that all statements made herein of my own knowledge are believed to be true; and further that these statements were made a made are punishable by fine or imprisonment, or both, under Section faise statements may jeopardize the validity of the application or any | with the knowledge that willful false statements and the like so 1001 of Title 18 of the United States Code and that such willful |
| | |
| Residence: 15, Haregabsvej, DK-3230 Græsted, Denmark (city and either US state, if applicable, or country) | • |
| Mailing Address: 15, Haregabsvej, DK-3230 Grasted, Der | nmark ' |
| | |
| Citizenship: Danish. | |
| Inventor's Signature: | Date: Decombe - 3, 2002. (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application) |
| Name: | |
| Residence: | ••••••••••••••••••••••••••••••••••••••• |
| Mailing Address: | |
| • | |
| Citizenship: | · · · · · · · · · · · · · · · · · · · |
| Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent) | Date: |
| | |
| | - |
| m min h l | |
| This declaration is continued on the following sheet, "Continuati | on of Box No. VIII (iv)". |

A. CLASSIFICATION OF SUBJECT MATTER IPC7: E21B 29/04 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: E21B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched SE,DK,FI,NO classes as above Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) **EPO-INTERNAL** C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category* 1-14 US 4572288 A (K.S. KINLEY), 25 February 1986 (25.02.86)US 3073388 A (L.W. CHENAULT), 15 January 1963 1-14 A (15.01.63)1-14 US 1764222 A (J.A. MORRISON ET AL), 17 June 1930 A (17.06.30)1-14 US 5513570 A (P.M. MULCAHY), 7 May 1996 A (07.05.96)See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive filing date step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other "Y" document of particular relevance: the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is combined with one or more other such documents, such combination "O" document referring to an oral disclosure, use, exhibition or other being obvious to a person skilled in the art document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 1 5 -05- 2003 <u>13 May 2003</u> Name and mailing address of the ISA/ Authorized officer **Swedish Patent Office** Box 5055, S-102 42 STOCKHOLM Christer Bäcknert / MRo

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INTERNATION L SEARCH REPORT Information Latent family members

Interponal application No. 29/04/03 PC17UK 02/00708

| Patent document cited in search report | | | Publication date | Patent family member(s) | Publication date |
|--|---------|---|------------------|-------------------------|---------------------|
| US | 4572288 | A | 25/02/86 | NONE | |
| US | 3073388 | A | 15/01/63 | NONE | |
| บร | 1764222 | A | 17/06/30 | NONE | |
| US | 5513570 | A | 07/05/96 | NONE | |

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